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AMENDMENTS TO THE CLAIMS 10/510145
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The listing below of the claims presents in amended form claims 1 through 9 that were approved by the International Preliminary Examination Authority and that were determined to satisfy the PCT patentability criteria in the international phase of the corresponding PCT application. Claims 10 and 11 are new claims that are also based upon the approved PCT claims. The following claims replace all prior versions and listings of claims in the present application:

## **Listing of Claims:**

Claim 1 (currently amended): A method of producing a molybdenum-silicide-type heating element that is comprised containing essentially of molybdenum silicide type and alloys of this basic that material, characterised by said method comprising the steps of: producing a material that contains substantially Mo(Si<sub>1-x</sub> Al<sub>x</sub>)<sub>2</sub> and Al<sub>2</sub>O<sub>3</sub> by mixing a molybdenum aluminium aluminum silicide Mo(Si<sub>1-y</sub>Al<sub>y</sub>)<sub>2</sub> with SiO<sub>2</sub>, wherein the SiO<sub>2</sub> is at least 98% pure; and forming a heating element from the produced material.

Claim 2 (currently amended): A method according to Claim 1, characterised in that wherein the SiO<sub>2</sub> is present in silicates, such as mullite and sillimanite, which do the mixture is a silicate and does not effect the affect symmetry of the crystal lattice of molybdenum silicide crystal lattice.

Claim 3 (currently amended): A method according to Claim 1 or 2, characterised in that , wherein x is caused to lie lies in the range of 0.4 - 0.6.

Claim 4 (currently amended): A method according to Claim 1 or 2, characterised in that , wherein x is caused to lie lies in the range of 0.45 - 0.55.

Claim 5 (currently amended): A method according to Claim 1, <del>2, 3 or 4, characterised by including the step of partially substituting Re or W in the material Mo(Si<sub>1-x</sub> Al<sub>x</sub>)<sub>2</sub> for molybdenum partly with Re or W in the material Mo(Si<sub>1-x</sub> Al<sub>x</sub>)<sub>2</sub>.</del>

Claim 6 (currently amended): [[A]] <u>An</u> electrical heating element that is eemprised substantially of the molybdenum silicide type and alloys of this basic that material, characterised in that said element is comprised chiefly of comprising the materials Mo(Si<sub>1-x</sub> Al<sub>x</sub>)<sub>2</sub> and Al<sub>2</sub>O<sub>3</sub>; wherein SiO<sub>2</sub> having a purity of at least 98% is added during the production process included in the material.

Claim 7 (currently amended): A heating element according to Claim 5, characterised in that wherein x lies in the range of 0.4 - 0.6.

Claim 8 (currently amended): A heating element according to Claim 7, characterised in that wherein x is caused to lie lies in the range of 0.45 - 0.55.

Claim 9 (currently amended): A heating element according to Claim 5, 6, 7 or 8, characterised in that wherein molybdenum in the material Mo(Si<sub>1-x</sub> Al<sub>x</sub>)<sub>2</sub> is replaced partially replaced with at least one of Re er and W.

Claim 10 (new): A method according to claim 2, wherein the silicate is mullite.